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NEWS 19 Aug 09 JAPIO to be reloaded August 25, 2002
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 now available on STN
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NEWS 22 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 23 Aug 26 Sequence searching in REGISTRY enhanced

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=> s 11 and synergis?
L2 120 L1 AND SYNERGIS?

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'1998' NOT A VALID FIELD CODE
 31 FILES SEARCHED...
L3 20 L2 AND PD<1998

=> d 13 1-20

L3 ANSWER 1 OF 20 ADISALERTS COPYRIGHT 2002 (ADIS)
AN 1995:38237 ADISALERTS
DN 800407973
TI Hypoglycemic effects of peroxovanadium compounds in Sprague-Dawley and diabetic BB rats
ADIS TITLE: Peroxovanadium compounds: pharmacodynamics.; Antihyperglycaemic effects in Sprague-Dawley and diabetic BB rats; Animal study
AU Yale J F; Lachance D; Bevan A P; Vigeant C; Shaver A; et al
CS McGill University, Quebec, Canada
SO Diabetes (Nov 1, 1995), Vol. 44, pp. 1274-1279
DT (Animal)
RE Diabetes (Summary): Alert no. 12, 1995
FS Summary
LA English
WC 669

L3 ANSWER 2 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1996:81472 BIOSIS
DN PREV199698653607
TI Peroxovanadium compounds: Biological actions and mechanism of insulin-mimesis.
AU Bevan, A. Paul; Drake, Paul G.; Yale, Jean-Francois; Shaver, Alan; Posner, Barry I. (1)
CS (1) Polypeptide Hormone Lab., Strathcona Med. Build., 3640 University St., Rm. W3.15, Montreal, PQ H3A 2B2 Canada
SO Molecular and Cellular Biochemistry, (1995) Vol. 153, No. 1-2, pp. 49-58.
ISSN: 0300-8177.
DT Article
LA English

L3 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2002 ACS
AN 1996:26830 CAPLUS
DN 124:105352
TI Peroxovanadium compounds: biological actions and mechanism of insulin-mimesis
AU Bevan, A. Paul; Drake, Paul G.; Yale, Jean-Francois; Shaver, Alan; Posner, Barry I.
CS Polypeptide Hormone Laboratory, McGill University, Montreal, QC, H3A 2B2, Can.
SO Molecular and Cellular Biochemistry (1995), 153(1&2), 49-58
CODEN: MCBIB8; ISSN: 0300-8177
PB Kluwer
DT Journal; General Review

LA English

L3 ANSWER 4 OF 20 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AN 96005387 EMBASE

DN 1996005387

TI Peroxovanadium compounds: Biological actions and mechanism of insulin-mimesis.

AU Bevan A.P.; Drake P.G.; Yale J.-F.; Shaver A.; Posner B.I.

CS Polypeptide Hormone Lab, 3640 University Street, Montreal, Que. H3A 2B2, Canada

SO Molecular and Cellular Biochemistry, (1995) 153/1-2 (49-58).
ISSN: 0300-8177 CODEN: MCBIB8

CY United States

DT Journal; Conference Article

FS 003 Endocrinology
029 Clinical Biochemistry
030 Pharmacology
037 Drug Literature Index

LA English

SL English

L3 ANSWER 5 OF 20 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AN 95323384 EMBASE

DN 1995323384

TI Hypoglycemic effects of peroxovanadium compounds in Sprague-Dawley and diabetic BB rats.

AU Yale J.-F.; Lachance D.; Bevan A.P.; Vigeant C.; Shaver A.; Posner B.I.

CS McGill Nutrition/Food Science Centre, Royal Victoria Hospital, 687 Pine Ave. W., Montreal, Que. H3A 1A1, Canada

SO Diabetes, (1995) 44/11 (1274-1279).
ISSN: 0012-1797 CODEN: DIAEАЗ

CY United States

DT Journal; Article

FS 003 Endocrinology
037 Drug Literature Index

LA English

SL English

L3 ANSWER 6 OF 20 JICST-EPlus COPYRIGHT 2002 JST

AN 970675046 JICST-EPlus

TI Insulin-Like Effects of Bis-Salicylidine Ethylenediaminato Oxovanadium(IV) Complex on Carbohydrate Metabolism.

AU DURAI N; SAMINATHAN G

CS Univ. Madras, Madras, IND

SO J Clin Biochem Nutr, (1997) vol. 22, no. 1, pp. 31-39. Journal Code: X0851A (Fig. 1, Tbl. 5, Ref. 40)
ISSN: 0912-0009

CY Japan

DT Journal; Article

LA English

STA New

L3 ANSWER 7 OF 20 SCISEARCH COPYRIGHT 2002 ISI (R)

AN 97:514737 SCISEARCH

GA The Genuine Article (R) Number: XH910

TI Insulin-like effects of bis-salicylidine ethylenediaminato oxovanadium (IV) complex on carbohydrate metabolism

AU Durai N; Saminathan G (Reprint)

CS UNIV MADRAS, DEPT BIOCHEM, GUINDY CAMPUS, MADRAS 600025, TAMIL NADU, INDIA (Reprint); UNIV MADRAS, DEPT BIOCHEM, MADRAS 600025, TAMIL NADU, INDIA

CYA INDIA

SO JOURNAL OF CLINICAL BIOCHEMISTRY AND NUTRITION, (JAN 1997) Vol.

22, No. 1, pp. 31-39.

Publisher: INST APPLIED BIOCHEMISTRY, YAGI MEMORIAL PARK, MITAKE GIFU
505-01, JAPAN.

ISSN: 0912-0009.

DT Article; Journal

FS LIFE

LA English

REC Reference Count: 40

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 8 OF 20 SCISEARCH COPYRIGHT 2002 ISI (R)

AN 96:47974 SCISEARCH

GA The Genuine Article (R) Number: TM620

TI PEROXOVANADIUM COMPOUNDS - BIOLOGICAL ACTIONS AND MECHANISM OF
INSULIN-MIMESIS

AU BEVAN A P; DRAKE P G; YALE J F; SHAVER A; POSNER B I (Reprint)

CS MCGILL UNIV, POLYPEPTIDE HORMONE LAB, STRATHCONA MED BLDG, 3640 UNIV ST,
RM W3 15, MONTREAL, PQ H3A 2B2, CANADA (Reprint); MCGILL UNIV, POLYPEPTIDE
HORMONE LAB, MONTREAL, PQ H3A 2B2, CANADA; MCGILL UNIV, MCGILL NUTR & FOOD
SCI CTR, MONTREAL, PQ H3A 2B2, CANADA; MCGILL UNIV, DEPT CHEM, MONTREAL,
PQ H3A 2B2, CANADA

CYA CANADA

SO MOLECULAR AND CELLULAR BIOCHEMISTRY, (06 DEC 1995) Vol. 153, No.
1-2, pp. 49-58.

ISSN: 0300-8177.

DT Article; Journal

FS LIFE

LA ENGLISH

REC Reference Count: 52

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 9 OF 20 SCISEARCH COPYRIGHT 2002 ISI (R)

AN 92:451142 SCISEARCH

GA The Genuine Article (R) Number: JF160

TI SYNERGISM IN INSULIN-LIKE EFFECTS OF MOLYBDATE PLUS H₂O₂ OR
TUNGSTATE PLUS H₂O₂ ON GLUCOSE-TRANSPORT BY ISOLATED RAT ADIPOCYTES

AU GOTO Y (Reprint); KIDA K; IKEUCHI M; KAINO Y; MATSUDA H

CS EHIME UNIV, SCH MED, DEPT MICROBIOL IMMUNOL, SHIGENOBU, EHIME 79102, JAPAN
(Reprint)

CYA JAPAN

SO BIOCHEMICAL PHARMACOLOGY, (07 JUL 1992) Vol. 44, No. 1, pp.
174-177.

ISSN: 0006-2952.

DT Note; Journal

FS LIFE

LA ENGLISH

REC Reference Count: 19

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 10 OF 20 TOXCENTER COPYRIGHT 2002 ACS

AN 1996:61778 TOXCENTER

DN 96401504 PubMed ID: 8927047

TI Peroxovanadium compounds: biological actions and mechanism of
insulin-mimesis

AU Bevan A P; Drake P G; Yale J F; Shaver A; Posner B I

CS Polypeptide Hormone Laboratory, McGill University, Montreal, Quebec,
Canada

SO MOLECULAR AND CELLULAR BIOCHEMISTRY, (1995 Dec 6-20) 153 (1-2)
49-58. Ref: 52.

Journal Code: 0364456. ISSN: 0300-8177.

CY Netherlands

DT Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)
(REVIEW, TUTORIAL)

FS MEDLINE
OS MEDLINE 96401504
LA English
ED Entered STN: 20011116
Last Updated on STN: 20011116

L3 ANSWER 11 OF 20 TOXCENTER COPYRIGHT 2002 ACS
AN 1996:7469 TOXCENTER
DN 96026176 PubMed ID: 7589823
TI Hypoglycemic effects of peroxovanadium compounds in Sprague-Dawley and diabetic BB rats
AU Yale J F; Lachance D; Bevan A P; Vigeant C; Shaver A; Posner B I
CS McGill Nutrition and Food Science Centre, McGill University, Montreal, Quebec, Canada
SO DIABETES, (1995 Nov) 44 (11) 1274-9.
Journal Code: 0372763. ISSN: 0012-1797.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
FS MEDLINE
OS MEDLINE 96026176
LA English
ED Entered STN: 20011116
Last Updated on STN: 20011116

L3 ANSWER 12 OF 20 USPATFULL
AN 2001:141921 USPATFULL
TI Immunomodulating compositions from bile
IN Rang, Romeo, Bucharest, Romania
PA Lorus Therapeutics Inc., Ontario, Canada (non-U.S. corporation)
PI US 6280774 B1 20010828
WO 9507089 19950316 <--
AI US 1996-612921 19960516 (8)
WO 1994-CA494 19940909
19960516 PCT 371 date
19960516 PCT 102(e) date
RLI Continuation of Ser. No. US 1994-231726, filed on 4 Apr 1994, now abandoned Continuation of Ser. No. US 1993-155303, filed on 22 Nov 1993, now abandoned Continuation of Ser. No. US 1993-118269, filed on 9 Sep 1993, now abandoned
DT Utility
FS GRANTED
LN.CNT 3417
INCL INCLM: 424/528.000
NCL NCLM: 424/528.000
IC [7]
ICM: A61K035-413
EXF 424/528

L3 ANSWER 13 OF 20 USPATFULL
AN 1999:15891 USPATFULL
TI Pharmaceutical and/or dietetic compositions with antioxidant activity containing carnosine or derivatives and branched amino acids
IN Bianchi, Roberto, Milan, Italy
PA Farmila-Farmaceutici Milano S.R.L., United States (non-U.S. corporation)
PI US 5866537 19990202
WO 9636348 19961121 <--
AI US 1997-952437 19971209 (8)
WO 1996-EP2079 19960515
19971209 PCT 371 date
19971209 PCT 102(e) date

PRAI IT 1995-MI1021 19950519
DT Utility
FS Granted
LN.CNT 483
INCL INCLM: 514/002.000
INCLS: 514/561.000
NCL NCLM: 514/002.000
NCLS: 514/561.000
IC [6]
ICM: A61K038-00
ICS: A61K031-195
EXF 514/2; 514/561
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 14 OF 20 USPATFULL
AN 96:77766 USPATFULL
TI Blood sugar regulating composition and methods relating thereto
IN Mann, Morris A., 21663 W. 57th Ave., Glendale, AZ, United States 85308
PI US 5550113 19960827 <--
AI US 1994-277875 19940720 (8)
DT Utility
FS Granted
LN.CNT 549
INCL INCLM: 514/054.000
INCLS: 514/506.000; 424/639.000; 424/646.000; 424/655.000; 536/123.100
NCL NCLM: 514/054.000
NCLS: 424/639.000; 424/646.000; 424/655.000; 514/506.000; 536/123.100
IC [6]
ICM: A61K031-715
ICS: C08B037-18
EXF 514/54; 514/506; 424/639; 424/646; 424/655; 536/123.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 20 USPATFULL
AN 96:70444 USPATFULL
TI Composition and method for weight reduction and long term management of
obesity
IN Keown, Wendy J., 8939 N. Camden Dr., Elk Grove, CA, United States 95624
Ford, Betty J., 1250 Howe Ave., Sacramento, CA, United States 95825
Stoddard, Sandra L., 1250 Howe Ave., Sacramento, CA, United States
95825
PI US 5543405 19960806 <--
AI US 1994-326750 19941020 (8)
RLI Continuation of Ser. No. US 1993-142496, filed on 22 Oct 1993, now
abandoned
DT Utility
FS Granted
LN.CNT 957
INCL INCLM: 514/188.000
INCLS: 514/161.000; 514/164.000; 514/165.000; 514/263.000; 514/653.000;
514/654.000; 514/910.000
NCL NCLM: 514/188.000
NCLS: 514/161.000; 514/164.000; 514/165.000; 514/263.320; 514/653.000;
514/654.000; 514/910.000
IC [6]
ICM: A61K031-555
ICS: A61K031-62; A61K031-605; A61K031-60
EXF 514/188; 514/161; 514/164; 514/165; 514/653; 514/654; 514/263; 514/909;
514/910
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 16 OF 20 USPATFULL

AN 96:62898 USPATFULL
TI Use of piperine to increase the bioavailability of nutritional compounds
IN Majeed, Muhammed, Piscataway, NJ, United States
Badmaev, Vladimir, Piscataway, NJ, United States
Rajendran, R., Bangalore, India
PA Sabinsa Corporation, Piscataway, NJ, United States (U.S. corporation)
PI US 5536506 19960716 <--
AI US 1995-393738 19950224 (8)
DT Utility
FS Granted
LN.CNT 571
INCL INCLM: 424/464.000
INCLS: 424/195.100; 424/423.000; 424/430.000; 424/434.000; 424/443.000;
424/451.000
NCL NCLM: 424/464.000
NCLS: 424/423.000; 424/430.000; 424/434.000; 424/443.000; 424/451.000;
424/734.000; 424/752.000; 424/756.000
IC [6]
ICM: A61F002-02
ICS: A61F006-06; A61K009-70; A61K009-48
EXF 424/195.1; 424/423; 424/430; 424/434; 424/443; 424/451; 424/464
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 17 OF 20 USPATFULL
AN 95:105863 USPATFULL
TI Diabetes prevention and treatment using gamma-pyrone
IN Yoon, Ji-Won, Calgary, Canada
PA University Technologies International, Inc., Calgary, Canada (non-U.S.
corporation)
PI US 5470873 19951128 <--
AI US 1994-179555 19940110 (8)
RLI Continuation-in-part of Ser. No. US 1992-978958, filed on 23 Nov 1992,
now patented, Pat. No. US 5298525
DT Utility
FS Granted
LN.CNT 1302
INCL INCLM: 514/460.000
INCLS: 514/866.000; 424/195.100
NCL NCLM: 514/460.000
NCLS: 424/725.000; 514/866.000
IC [6]
ICM: A61K031-35
ICS: A61K035-78
EXF 514/460; 514/866; 424/195.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 18 OF 20 USPATFULL
AN 94:71041 USPATFULL
TI Vanadyl complexes of hydroxamate chelators and pharmaceutical
compositions comprising them
IN Shechter, Yoram, Rehovot, Israel
Shanzer, Abraham, Rehovot, Israel
Libman, Jacqueline, Rehovot, Israel
PA Yeda Research and Development Co. Ltd., Rehovot, Israel (non-U.S.
corporation)
PI US 5338759 19940816 <--
WO 9307155 19930415 <--
AI US 1993-70384 19930607 (8)
WO 1992-EP2306 19921006
19930607 PCT 371 date
19930607 PCT 102(e) date
PRAI IL 1991-99666 19911007

DT Utility
FS Granted
LN.CNT 497
INCL INCLM: 514/492.000
INCLS: 514/866.000; 556/042.000
NCL NCLM: 514/492.000
NCLS: 514/866.000; 556/042.000
IC [5]
ICM: A61K031-28
ICS: C07F009-00
EXF 556/42; 514/492; 514/866
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 19 OF 20 USPATFULL
AN 91:98219 USPATFULL
TI **Vanadium**-peroxide compositions as insulin mimickers
IN Posner, Barry I., 125 Geneva Crescent, Quebec, Canada H3R 2A7
Fantus, I. George, 4745 Meridian, Westmount, Canada H3W 2C2
PI US 5069913 19911203 <--
AI US 1989-406253 19890912 (7)
RLI Continuation of Ser. No. US 1987-105212, filed on 7 Oct 1987, now
patented, Pat. No. US 4882171
PRAI CA 1986-520627 19861016
DT Utility
FS Granted
LN.CNT 272
INCL INCLM: 424/646.000
INCLS: 424/613.000; 424/616.000; 514/003.000; 514/714.000; 514/866.000
NCL NCLM: 424/646.000
NCLS: 424/613.000; 424/616.000; 514/003.000; 514/714.000; 514/866.000
IC [5]
ICM: A61K033-26
ICS: A61K033-40; A61K031-075; A61K037-26
EXF 424/110; 424/101; 424/613; 424/643; 424/646; 424/722; 424/616; 514/3;
514/714; 514/866
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 20 OF 20 USPATFULL
AN 89:94012 USPATFULL
TI **Vanadium**-peroxide compositions as insulin mimickers
IN Posner, Barry I., 125 Geneva Crescent, Town of Mount Royal, Quebec,
Canada H3R 2A7
Fantus, I. George, 4745 Meridian, Westmount, Canada H3W 2C2
PI US 4882171 19891121 <--
AI US 1987-105212 19871007 (7)
PRAI CA 1986-520627 19861016
DT Utility
FS Granted
LN.CNT 293
INCL INCLM: 424/616.000
INCLS: 424/613.000; 424/646.000; 514/714.000; 514/866.000
NCL NCLM: 424/616.000
NCLS: 424/613.000; 424/646.000; 514/714.000; 514/866.000
IC [4]
ICM: A61K033-24
ICS: A61K033-40
EXF 424/130; 424/131; 424/616; 424/646; 514/714; 514/866
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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'L102' IS NOT A VALID FORMAT

'14' IS NOT A VALID FORMAT

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L3 ANSWER 14 OF 20 USPATFULL

AN 96:77766 USPATFULL

TI Blood sugar regulating composition and methods relating thereto

IN Mann, Morris A., 21663 W. 57th Ave., Glendale, AZ, United States 85308

PI US 5550113 19960827 <--

AI US 1994-277875 19940720 (8)

DT Utility

FS Granted

LN.CNT 549

INCL INCLM: 514/054.000

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NCL NCLM: 514/054.000

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IC [6]

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EXF 514/54; 514/506; 424/639; 424/646; 424/655; 536/123.1

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> D L3 14 KWIC

L3 ANSWER 14 OF 20 USPATFULL

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SUMM . . . or allowing the presence of free glucose for tissue consumption. It is known that certain physiologically defined disease states (e.g., **diabetes** mellitus (sustained hyperglycemia) and reactive or insulinoma induced hypoglycemia) are associated with specific and characteristic alterations in mood. Premenstrual syndrome.

SUMM . . . one embodiment, the present invention discloses compositions comprising inulin and one or more metal complexes, including (but not limited to) **vanadium**, chromium, and manganese complexes. In another embodiment, the compositions of this invention further comprise one or more medium chain triglycerides.

DETD . . . of the present invention are effective in regulating blood sugar levels at significantly lower dosages by virtue of the apparent synergistic effect of the other non-inulin composition components (e.g., the metal complexes). In the practice of the present invention, the dosage. . .

DETD . . . metal complexes, in conjunction with inulin, effect blood sugar regulation. Suitable metal complexes include metal complexes of chromium, manganese, and **vanadium**. As used herein, the term "complex" refers to any organic or inorganic ligated metal species.

DETD . . . e.g., Schroeder, The Trace Elements and Man, Devin-Adair, pub., Old Greenwich, Conn., 1977), and may explain, in part, maturity onset **diabetes** and its prevalence in humans after the age of 50.

DETD **Vanadium** also effects blood sugar regulation and has recently

been classified as an essential trace mineral. **Vanadium** complexes have been used in therapeutic applications including the treatment of **diabetes**. **Vanadium** is poorly absorbed and dietary intake ranges from about 2 to 15 mg per day. Because **vanadium** is poorly absorbed and its numerous complexes are extremely toxic, few **vanadium** complexes have been demonstrated to possess biological activity.

DETD Like the chromium complexes, the **vanadium** complexes include organic and inorganic **vanadium** complexes such as **vanadium** carbonyl, **vanadium** pentoxyde, **vanadium** trisulfate, vanadyl dichloride, and vanadyl trichloride. Various organic **vanadium** complexes may also be used in the composition of the present invention. Examples of organic **vanadium** complexes include vanadyl glycinate, vanadyl gluconate, and vanadyl citrate. In a preferred embodiment, the **vanadium** complex is vanadyl sulfate (VSO₄·sub.5).

DETD . . . present invention to stabilize blood sugar levels upon glucose challenge, Formulation A was administered to four individuals with insulin dependent **diabetes mellitus** and two individuals with definitive reactive hypoglycemia. The individuals with reactive hypoglycemia developed blood sugar levels of 40 and. . .

DETD Formulation A was administered to the individuals with **diabetes mellitus** (5 capsules, 3 times daily for one month). In all cases, the insulin requirements as determined by blood sugar. . .

DETD . . . Gilles de la Tourette syndrome
34 22

| | | | |
|-------|--|----|----|
| Seven | Depression, premenstrual syndrome | 21 | 9 |
| Eight | Anxiety, reactive hypoglycemia | 24 | 8 |
| Nine | Depression, adult onset diabetes mellitus * | 19 | 10 |
| Ten | Depression, facial tics | 26 | 14 |

*This patient was able to discontinue his oral hypoglycemic agent three weeks. . .

CLM What is claimed is:
. . . inulin, a metal complex, and a pharmaceutically acceptable carrier therefor wherein the metal of the metal complex is selected from **vanadium**, chromium and manganese.
. . . inulin, a metal complex, and a pharmaceutically acceptable carrier therefor wherein the metal of the metal complex is selected from **vanadium**, chromium and manganese.